

# The American Journal of PATHOLOGY

---

OFFICIAL PUBLICATION OF  
THE AMERICAN ASSOCIATION OF PATHOLOGISTS

---

Volume 110, 1983

(January Through March)

Vincent T. Marchesi  
Editor-in-Chief

## BOARD OF EDITORS

Dolph O. Adams  
Carl G. Becker  
Frederick F. Becker  
Baruj Benacerraf  
Earl P. Benditt  
Colin M. Bloor  
L. Maximilian Buja  
Charles C. Capen  
Charles G. Cochrane  
Robert D. Collins  
Ramzi S. Cotran  
John E. Craighead  
Vittorio Defendi  
Frank J. Dixon  
Thomas S. Edgington  
Emmanuel Farber  
John L. Farber  
Cecilia M. Fenoglio  
Frank W. Fitch  
Patrick J. Fitzgerald

Heinz Furthmayr  
Godfrey S. Getz  
Michael A. Gimbrone, Jr.  
Joe W. Grisham  
Donald B. Hackel  
Peter M. Henson  
Leonard Jarett  
Robert B. Jennings  
Morris J. Karnovsky  
Michael Kashgarian  
Werner H. Kirsten  
Jerome I. Kleinerman  
David Korn  
Marvin Kuschner  
Paul E. Lacy  
Michael E. Lamm  
Peter W. Lampert  
Michael W. Lieberman  
Richard G. Lynch  
Guido Majno

Robert T. McCluskey  
C. Richard Minick  
James F. Mustard  
Peter C. Nowell  
Carl W. Pierce  
Henry C. Pitot  
Alan S. Rabson  
Goetz W. Richter  
Russell Ross  
Dante G. Scarpelli  
Stephen M. Schwartz  
Stewart Sell  
Herschel Sidransky  
Edward A. Smuckler  
Leon Sokoloff  
Lewis Thomas  
William M. Thurlbeck  
Robert L. Trelstad  
Peter A. Ward  
Noel L. Warner  
Dorothea Zucker-Franklin

Jean G. Caldwell  
Assistant to the Editor

THE AMERICAN ASSOCIATION of PATHOLOGISTS

COPYRIGHT © 1983

BY THE AMERICAN ASSOCIATION OF PATHOLOGISTS

# The American Journal of PATHOLOGY

---

CONTENTS FOR VOLUME 110, 1983

## January 1983

- 1 Demonstration of Inflammatory Mediator-Induced Inflammation and Endothelial Cell Damage in the Anterior Segment of the Eye  
*Frederick N. Rowland, Matthew J. Donovan, Michael Lindsay, Walter I. Weiss, James O'Rourke, and Donald L. Kreutzer*
- 13 Kinetics of Acute Inflammation Induced by *Escherichia coli* in Rabbits: II. The Effect of Hyperimmunization, Complement Depletion, and Depletion of Leukocytes  
*Margaret M. Kopaniak and Henry Z. Movat*
- 30 Experimental Silicosis: II. Long-Term Effects of Intratracheally Instilled Quartz on Collagen Metabolism and Morphologic Characteristics of Rat Lungs  
*Karen M. Reiser, Wanda M. Haschek, Thomas W. Hesterberg, and Jerold A. Last*
- 41 Detection of a Complement-Derived Chemotactic Factor for Tumor Cells in Human Inflammatory and Neoplastic Effusions  
*F. W. Orr, E. J. Delikatny, S. Mokashi, G. V. Krepart, and H. G. Stiver*
- 48 Effect of Verapamil on Blood Pressure and Lesions in Heart and Kidney of Rats Made Hypertensive by Deoxycorticosterone (DOC)  
*Artur P. Aguas and Peter A. Nickerson*
- 55 Ultrastructural Physiology of Platelets With Randomly Dispersed Rather Than Circumferential Band Microtubules  
*James G. White*
- 64 Amyloid of the Seminal Vesicles: A Distinctive and Common Localized Form of Senile Amyloidosis  
*Peter Pitkänen, Per Westermark, Gibbons G. Cornwell III, and Wendy Murdoch*
- 70 Phenotypic Characterization of Hepatic Proliferation: Antigenic Expression by Proliferating Epithelial Cells in Fetal Liver, Massive Hepatic Necrosis, and Nodular Transformation of the Liver  
*Michael A. Gerber, Swan N. Thung, Susan Shen, F. Wayne Stromeyer, and Kamal G. Ishak*
- 75 Modification of Pancreatic Carcinogenesis in the Hamster Model: 2. The Effect of Partial Pancreatectomy  
*Parviz M. Pour, Thorkatla Donnelly, Katherine Stepan, and Kimberly Muffy*
- 83 Liver Cell Proliferation Induced by a Single Dose of Lead Nitrate  
*A. Columbano, G. M. Ledda, P. Sirigu, T. Perra, and P. Pani*
- 89 Further Characterization of Carcinogen-Induced Hepatocytelike Cells in Hamster Pancreas  
*M. Sambasiva Rao, V. Subbarao, Noreen Luetke, and Dante G. Scarpelli*
- 95 Ultrastructural Localization of Viral Antigens in the CNS of Mice Persistently Infected With Lymphocytic Choriomeningitis Virus (LCMV)  
*Moses Rodriguez, Michael J. Buchmeier, Michael B. A. Oldstone, and Peter W. Lampert*
- 101 Animal Model of Human Disease: Macroglobulinemic Neuropathy: Experimental Macroglobulinemic Neuropathy in Mice  
*Stephen M. Baird and Henry C. Powell*

## February 1983

- 105 Immunohistochemistry of a Gross Cystic Disease Fluid Protein (GCDFP-15) of the Breast: A Marker of Apocrine Epithelium and Breast Carcinomas with Apocrine Features  
*Gwen Mazoujian, Geraldine S. Pinkus, Sarah Davis, and Darrow E. Haagensen, Jr.*
- 113 Expression of a Neural Type of Intermediate Filament as a Distinguishing Feature Between Oat Cell Carcinoma and Other Lung Cancers  
*V.-P. Lehto, S. Stenman, M. Miettinen, D. Dahl, and I. Virtanen*
- 119 An Experimental Method for Rapid Growth of Liver in Spleen: The Survival and Proliferation of Chemically induced Preneoplastic Hepatocytes in Spleen  
*Sydney D. Finkelstein, George Lee, Alan Medline, Masae Tatematsu, Leonard Makowka, and Emmanuel Farber*
- 127 The Rhesus D Antigen: A Dicyclohexylcarbodiimide Binding Proteolipid  
*Peggy J. Brown, James P. Evans, Lyle T. Sinor, Lowell T. Tilzer, and Fred V. Plapp*
- 135 Histopathology and Host Response Associated With Reduced Tumorigenicity of 5-Bromodeoxyuridine-Treated Murine Melanoma Cells  
*Khin Khin Gyi and Jean R. Wrathall*
- 148 An Ultrastructural Analysis of Endothelial Change Paralleling Platelet Aggregation in a Light-Dye Model of Microvascular Insult  
*John T. Povlishock, William I. Rosenblum, Milton M. Sholley, and Enoch P. Wei*
- 161 Characterization of N-Ethyl-N-Nitrosourea-Induced Mammary Tumors in the Rat  
*Gheorghe Stoica, Adalbert Koestner, and Charles C. Capen*
- 170 The Effect of Charge on the Renal Distribution of Ferritin  
*Steven Cohen, Robert L. Vernier, and Alfred F. Michael*
- 182 Macrophage Polykaryon Formation *in Vitro* by Peritoneal Cells From Mice Given Injections of Sodium Periodate  
*J. Brice Weinberg*
- 193 Proteins of Intermediate Filaments: An Immunohistochemical and Biochemical Approach to the Classification of Soft Tissue Tumors  
*H. Denk, R. Krepler, U. Artlieb, G. Gabbiani, E. Rungger-Brändle, P. Leoncini, and W. W. Franke*
- 209 Pathologic Changes in 3-Methylindole-Induced Equine Bronchiolitis  
*Margaret A. Turk, Roger G. Breeze, and Anthony M. Gallina*
- 219 Medullary Thyroid Carcinoma in Female BALB/c Mice: A Report of 3 Cases With Ultrastructural, Immunohistochemical, and Transplantation Data  
*M. J. Van Zwieten, C. H. Frith, A. L. Nooteboom, H. J. Wolfe, and R. A. Delellis*
- 230 Evidence for an Adenoma-Carcinoma Sequence in Dimethylhydrazine-Induced Neoplasms of Rat Intestinal Epithelium  
*James L. Madara, Paul Harte, Joe Deasy, Donald Ross, Stephen Lahey, and Glenn Steele, Jr.*
- 236 Comparative Rates of Decline in the Primary Cloning Efficiencies of Smooth Muscle Cells From the Aging Thoracic Aorta of Two Murine Species of Contrasting Maximum Life Span Potentials  
*George M. Martin, Charles E. Ogburn, and Thomas N. Wight*

# March 1983

- 247 *In Vitro* Suppression of Myelopoiesis by Adherent Murine Splenocytes in Experimental Disseminated Histoplasmosis  
*Charles W. Caldwell, Yohannes W. Yesus, and Ronald F. Sprouse*
- 254 B-Cell and T-Cell Lymphomas and Other Associated Diseases Induced by an Infectious DNA Viroid-like Agent in Hamsters (*Mesocricetus auratus*)  
*Joseph H. Coggin, Jr., Bruce B. Bellomy, K. Vasa Thomas, and William J. Pollock*
- 267 Comparative Histopathology of Lesions Produced by *Actinomyces israelii*, *Actinomyces naeslundii*, and *Actinomyces viscosus* in Mice  
*M. J. Behbehani, J. D. Heeley, and H. V. Jordan*
- 275 Hypersensitivity Pneumonitis in Man: Light- and Electron-Microscopic Studies of 18 Lung Biopsies  
*Oichi Kawanami, Françoise Basset, Roberto Barrios, Jacques G. Lacronique, Victor J. Ferrans, and Ronald G. Crystal*
- 290 Aggregation of Equine Platelets by *Onchocerca cervicalis* Collagen  
*Lorraine A. McConnell and R. Wes Leid*
- 297 *In Vitro* and *In Vivo* Stimulation of Rat Neutrophils and Alveolar Macrophages by Immune Complexes: Production of O<sub>2</sub><sup>-</sup> and H<sub>2</sub>O<sub>2</sub>  
*Peter A. Ward, Ricardo E. Duque, Mark Sulavik, and Kent J. Johnson*
- 310 Modification of Pancreatic Carcinogenesis in the Hamster Model: 3. Inhibitory Effect of Alloxan  
*Parviz M. Pour, Katla Donnelly, and Katherine Stepan*
- 315 Temporal Morphologic Changes in Human Colorectal Carcinomas Following Xenografting  
*David H. Barkla and Peter J. M. Tutton*
- 322 Anaplastic Carcinomas in Nude Mice and in Original Donor Strain Rats Inoculated With Cultured Oval Cells  
*H. Yoshimura, R. Harris, S. Yokoyama, S. Takahashi, M. A. Sells, S. F. Pan, and B. Lombardi*
- 333 Acute Hematogenous Staphylococcal Osteomyelitis: A Description of the Natural History in an Avian Model  
*Kerry R. Emslie and Sydney Nade*
- 346 Abortion in Mice Induced by Intravenous Injections of Antibodies to Type IV Collagen or Laminin  
*J. M. Foidart, M. Yaar, A. Figueroa, A. Wilk, K. S. Brown, and L. A. Liotta*
- 359 REVIEW ARTICLE: The Role of Cytoskeletal and Cytocontractile Elements in Pathologic Processes  
*Elisabeth Rungger-Brändle and Giulio Gabbiani*
- 393 **Animal Model of Human Disease:** Hodgkin's Disease: SJL/J Murine Lymphoma  
*Rakesh K. Kumar*
- 397 **Animal Model of Human Disease:** Saccular Cerebral Aneurysms in Rats  
*N. Hashimoto, H. Handa, I. Nagata, and F. Hazama*
- 400 Index of Subjects
- 402 Index of Authors

